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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/784,284	02/24/2004	Hsin-Cheng Lin		9985
75	90 02/07/2005		EXAMINER	
Ann Tsai			FLANIGAN, ALLEN J	
931 West 75th S	Street, Suite 137			
PmB 174			ART UNIT	PAPER NUMBER
Naperville, IL 60565			3753	

DATE MAILED: 02/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/784,284	LIN, HSIN-CHENG				
Office Action Summary	Examiner	Art Unit				
	Allen J. Flanigan	3753				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		,				
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o						
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	, ,				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicationity documents have been received at (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	atent Application (PTO-152)				

A substitute specification in proper idiomatic English and in compliance with 37 CFR 1.52(a) and (b) is required. The substitute specification filed must be accompanied by a statement that it contains no new matter.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu.

Liu show a heat sink retainer clip 3 made of an "elastic metal plate" (line 6 of column 2) having a main unit 31 (corresponding to the claimed "locating part") with pressing arms 32 that exert pressure on the heat sink to press it against the component being cooled. Regarding the "processed with heat treatment" recitation in claim 1, "PRODUCT-BY-PROCESS CLAIMS ARE NOT LIMITED TO THE MANIPULATIONS OF THE RECITED STEPS, ONLY THE STRUCTURE IMPLIED BY THE STEPS". While it is true that process limitations may imply structure, it is the structure implied by the steps that limits the claims. In this case, from the specification it is clear that "heat treatment" refers to the well-known step of tempering thin carbon steel sheet material to impart greater strength and elasticity to the material. The claim is

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thus construed to require an elastic property in the claimed arms, and thus any elastic metal arms are deemed to inherently meet this recitation regardless of whether the reference (Liu) expressly discloses the process of tempering the metal material.

Regarding claim 3, claims 1 and 2 do not positively recite the fastener as part of the claimed subject matter, so the limitation of claim 3 fails to distinguish over Liu, which shows a non-threaded fastener. In other words this claim simply indicates what sort of fastener may be used with the claimed device.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu in view of Wiley.

Assuming for the sake of argument that Liu by itself fails to anticipate claim 1 with respect to the heat treatment limitation as discussed above, Wiley shows that it is well known in the art to employ such heat treatment in the formation of spring retainer clips. "The clips . . . are preferably formed from a single integral sheet metal stamping made from relatively high carbon steel

¹ Manual of Patent Examining Procedure, section 2113

which, after being formed, is heat treated or otherwise tempered in order that it will be substantially harder . . . which heat treating or tempering serves to materially increase the resiliency and elasticity of the clip as a whole". See lines 10-18, right hand column page 1. Thus, it would have been obvious to one of ordinary skill in the art at the time the instant invention was made to employ the well known tempering technique to form the metal clip of Liu.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Edmonds et al. speaks of the "temper" of clips 36 used to clamp a component to a heat sink. The remaining references show various heat sink retaining clip designs.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen J. Flanigan whose telephone number is (571) 272-4910. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on (571) 272-4930. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allen J. Flanigan Primary Examiner

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AJF